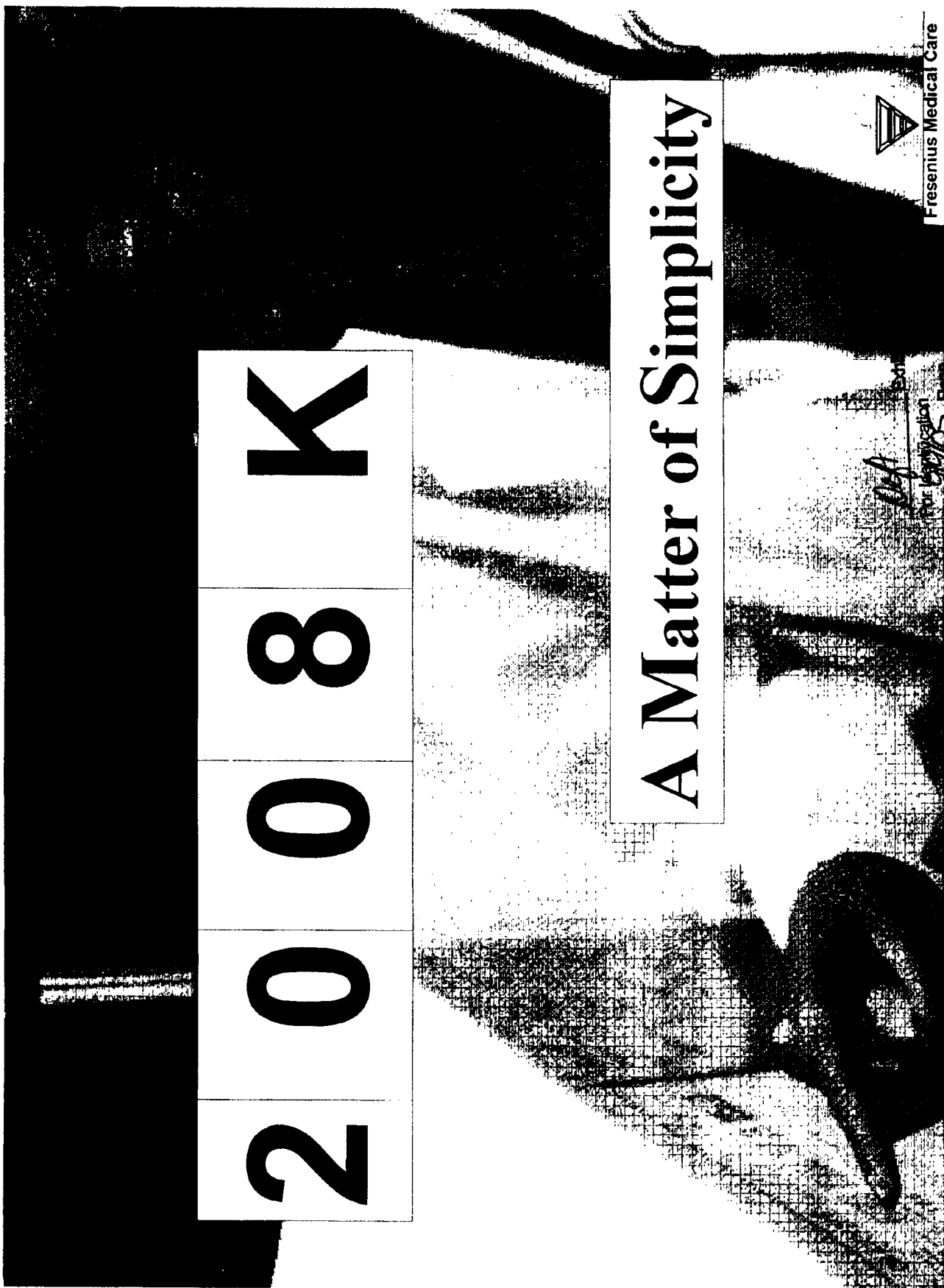


1



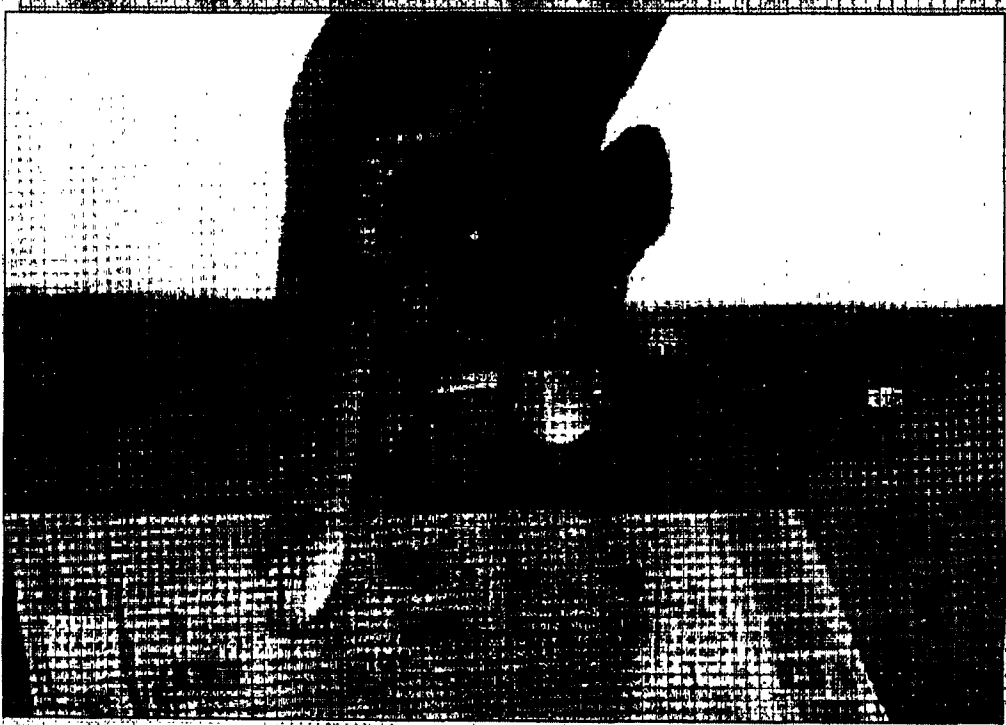
2008K

# A Matter of Simplicity



Preserius Medical Care

*Dr. [Signature]*  
Examination  
Page 1 of 1  
*Preserius Medical*  
03/07/06



**2008 K**

**In Touch with a  
New Generation**

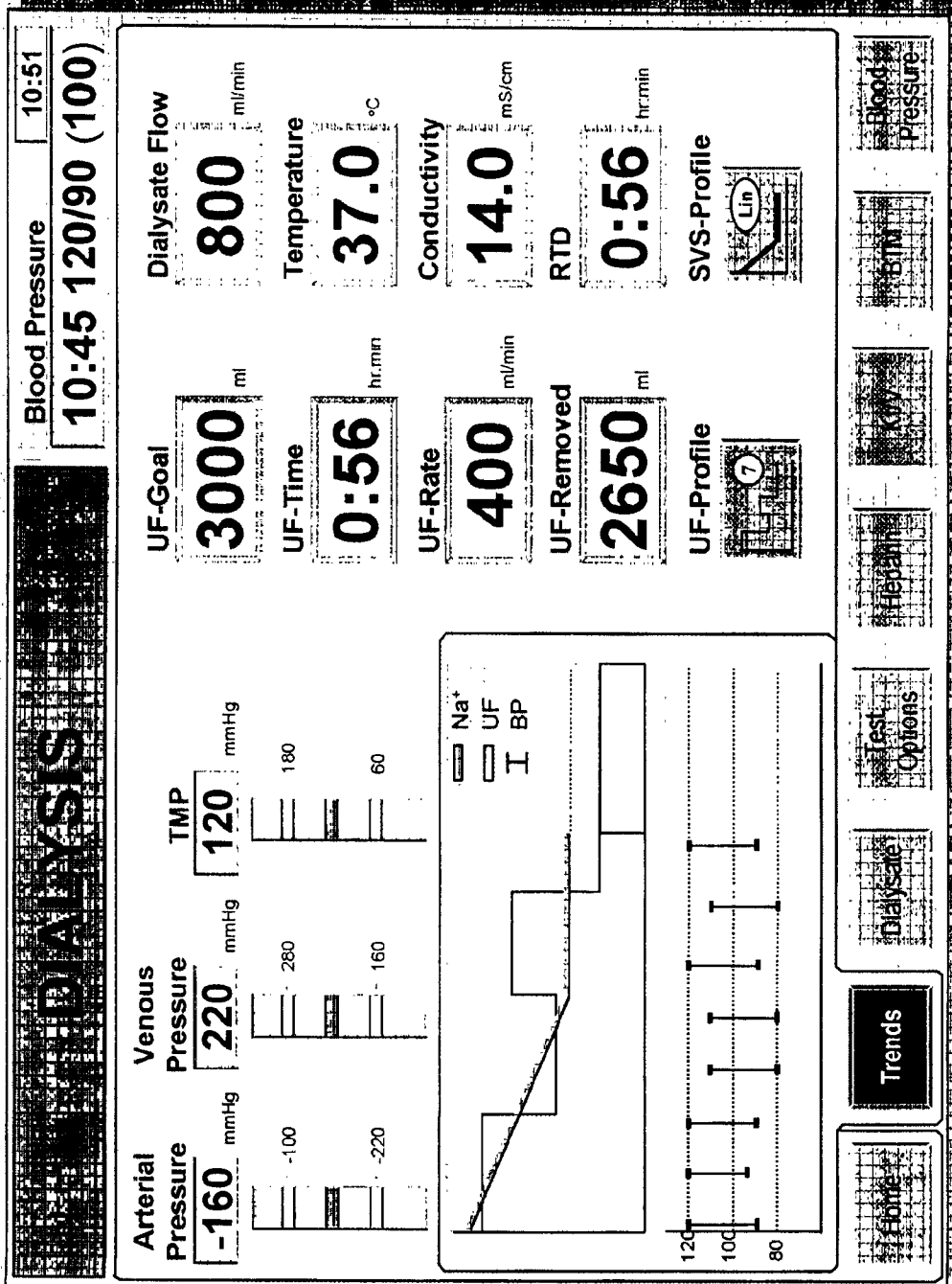


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# In Touch with a New Generation

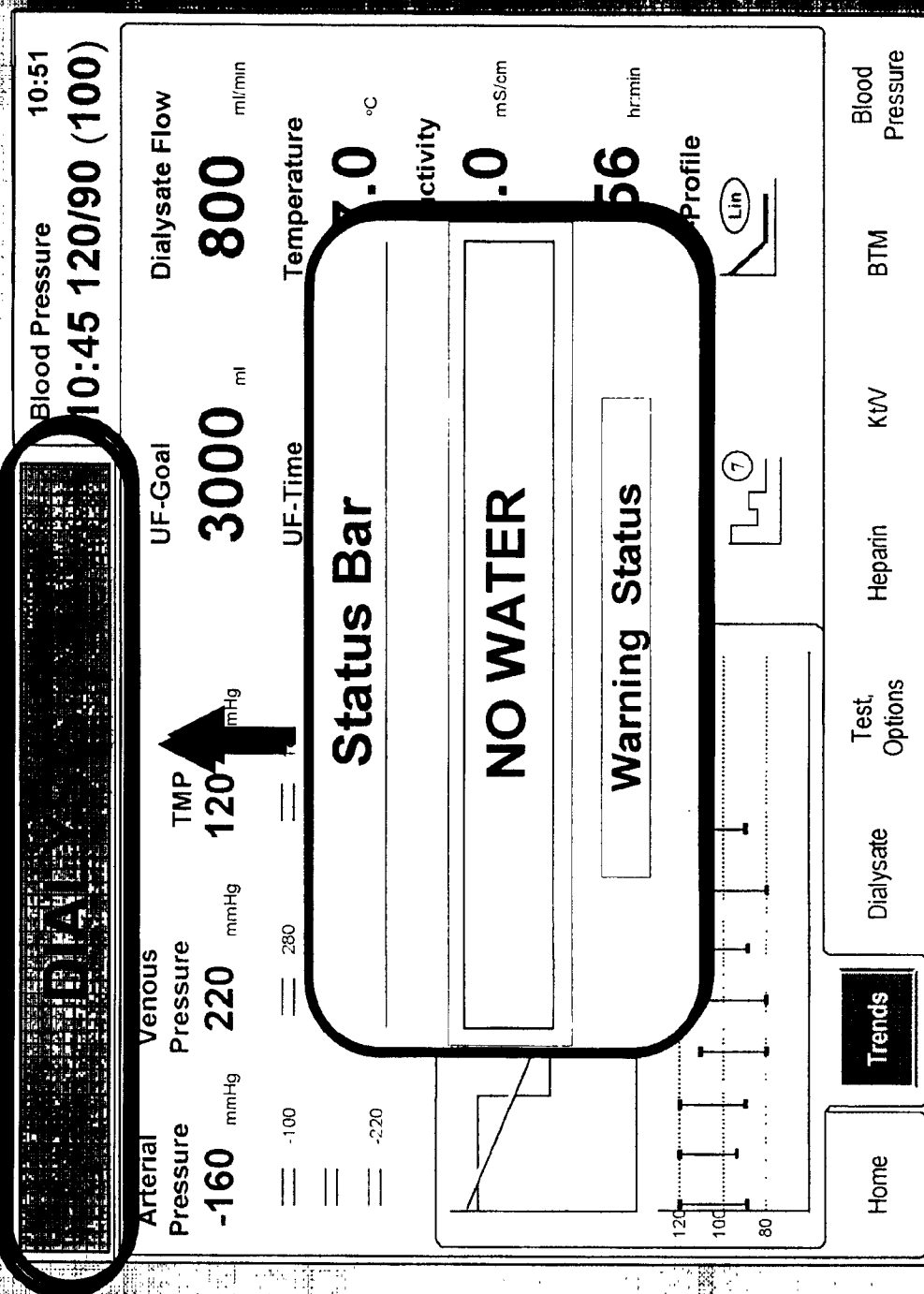
## The Touch Screen



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# In Touch with a New Generation

## The Touch Screen



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# In Touch with a New Generation

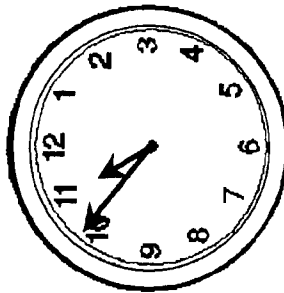
## The Touch Screen

### DIALYSIS

Blood Pressure 10:51  
10:45 120/90 (100)

Arterial Pressure	Venous Pressure	TMP	UF-Goal	Dialysate Flow
-160 mmHg	220 mmHg	120 mmHg	3000 ml	800 ml/min
-100	280	180	UF-Time	Temperature
-220				7.0 °C

### Status Bar



Real Time Clock

10:51



Home

Trends

Dialysate

Test Options

Heparin

KtV

BTM

Blood Pressure

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# In Touch with a New Generation

## The Touch Screen

### DIALYSIS

Blood Pressure 10:51

10:45 120/90 (100)

Arterial Pressure -160 mmHg  
Venous Pressure 220 mmHg  
TMP 120 mmHg  
UF-Goal 3000 ml  
Dialysate Flow 800 ml/min

UF-Time Temperature

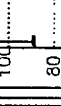
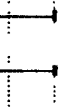
### Status Bar



Last Blood Pressure

10:45 120/90 (100)

Conductivity



Blood Pressure

BTM

Kt/V

Heparin

Test Options

Dialysate

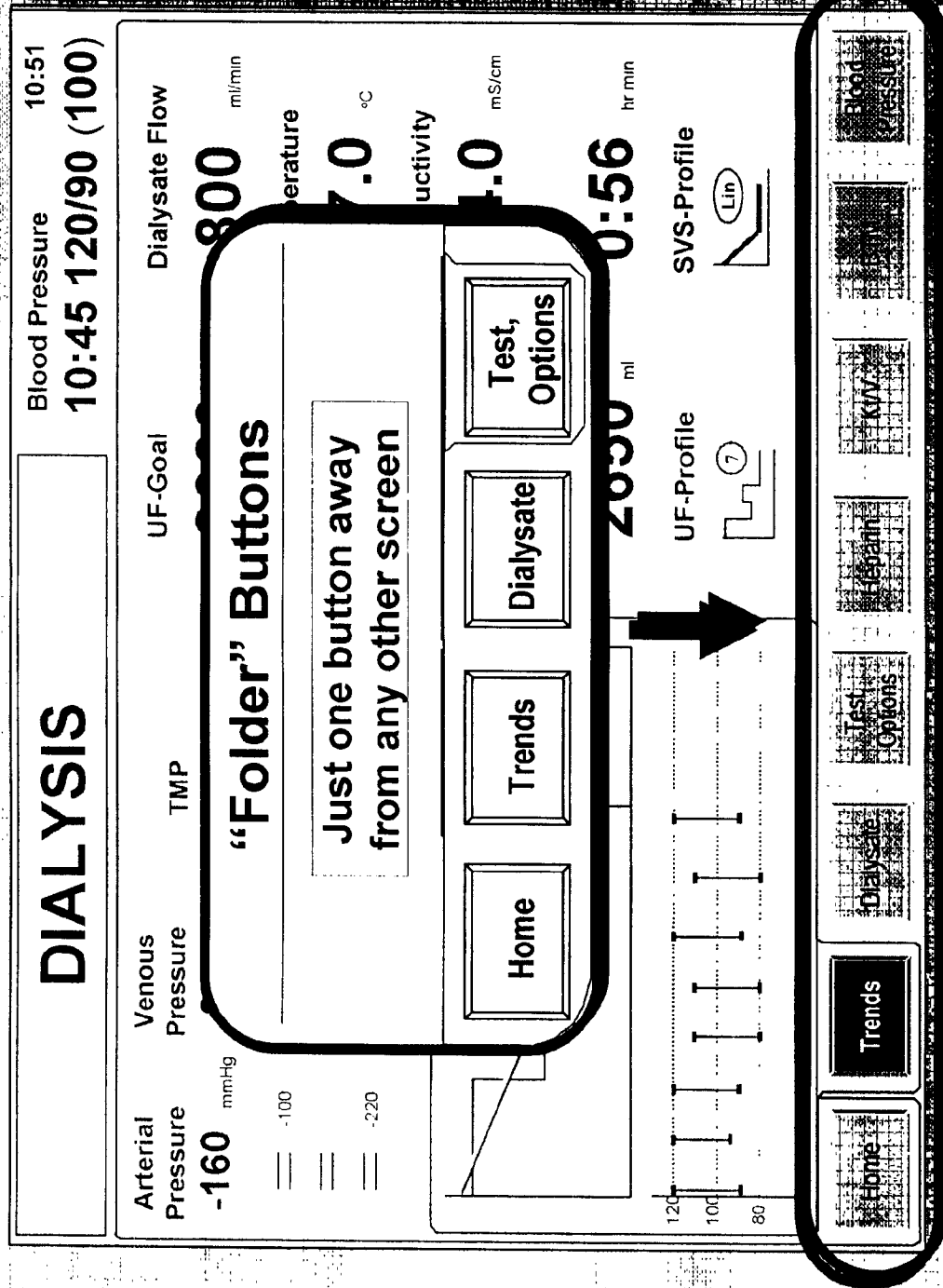
Trends

Home

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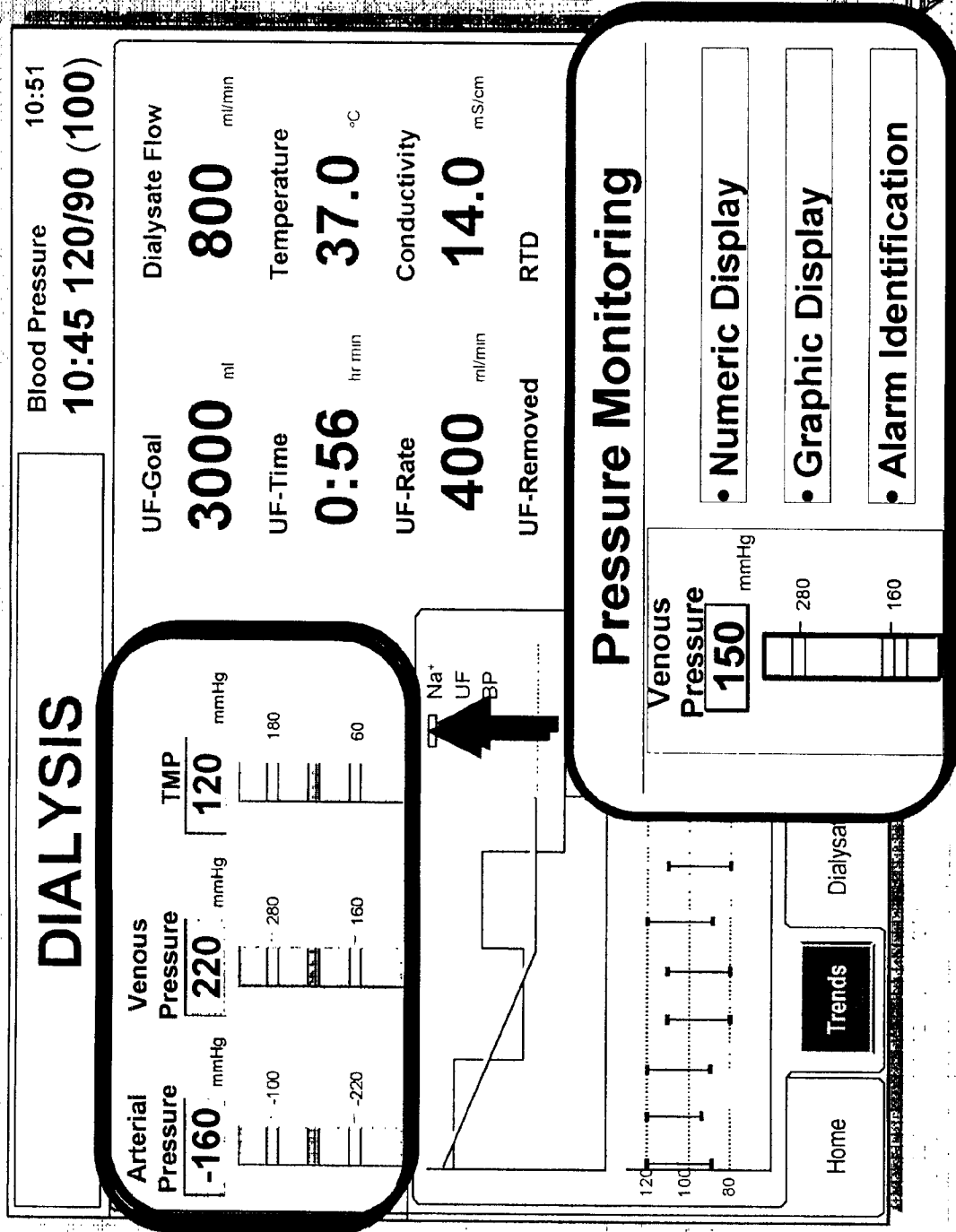
# In Touch with a New Generation

## The Touch Screen



# In Touch with a New Generation

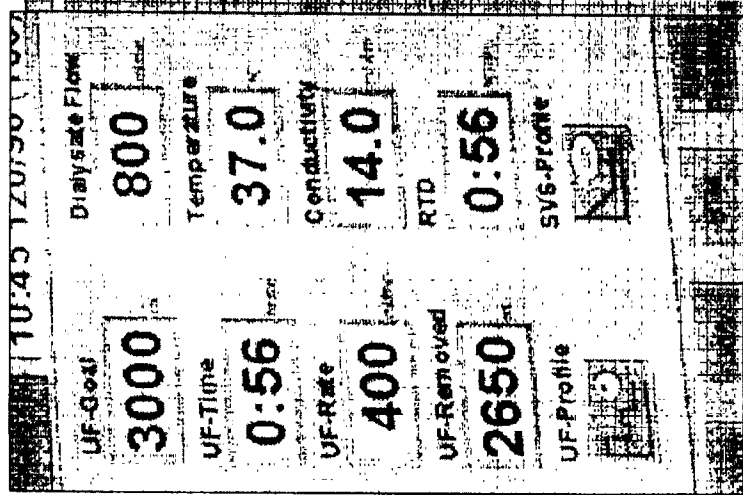
## The Touch Screen



# In Touch with a New Generation

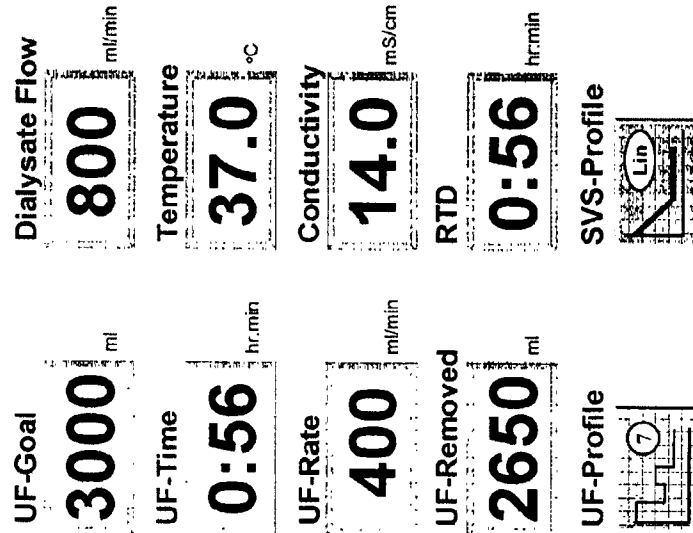
## The Touch Screen

### Touch Screen Buttons



### Color Coded Buttons

Blood Pressure  
10:45 120/90 (100)



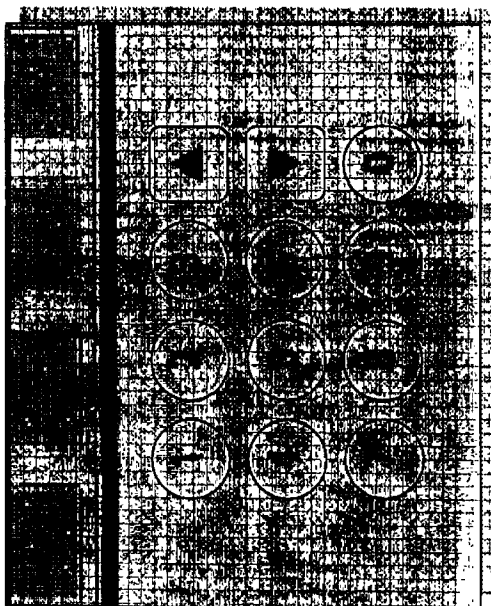
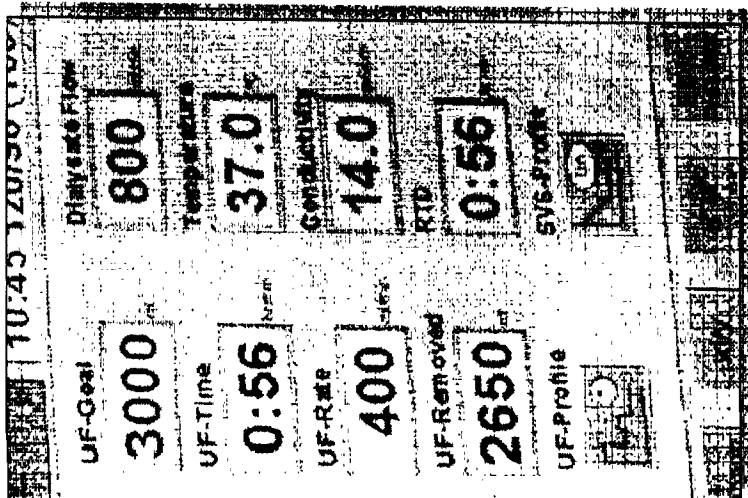
Test, Options  
Heparin Kt/V BTM Blood Pressure

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# In Touch with a New Generation

## The Touch Screen

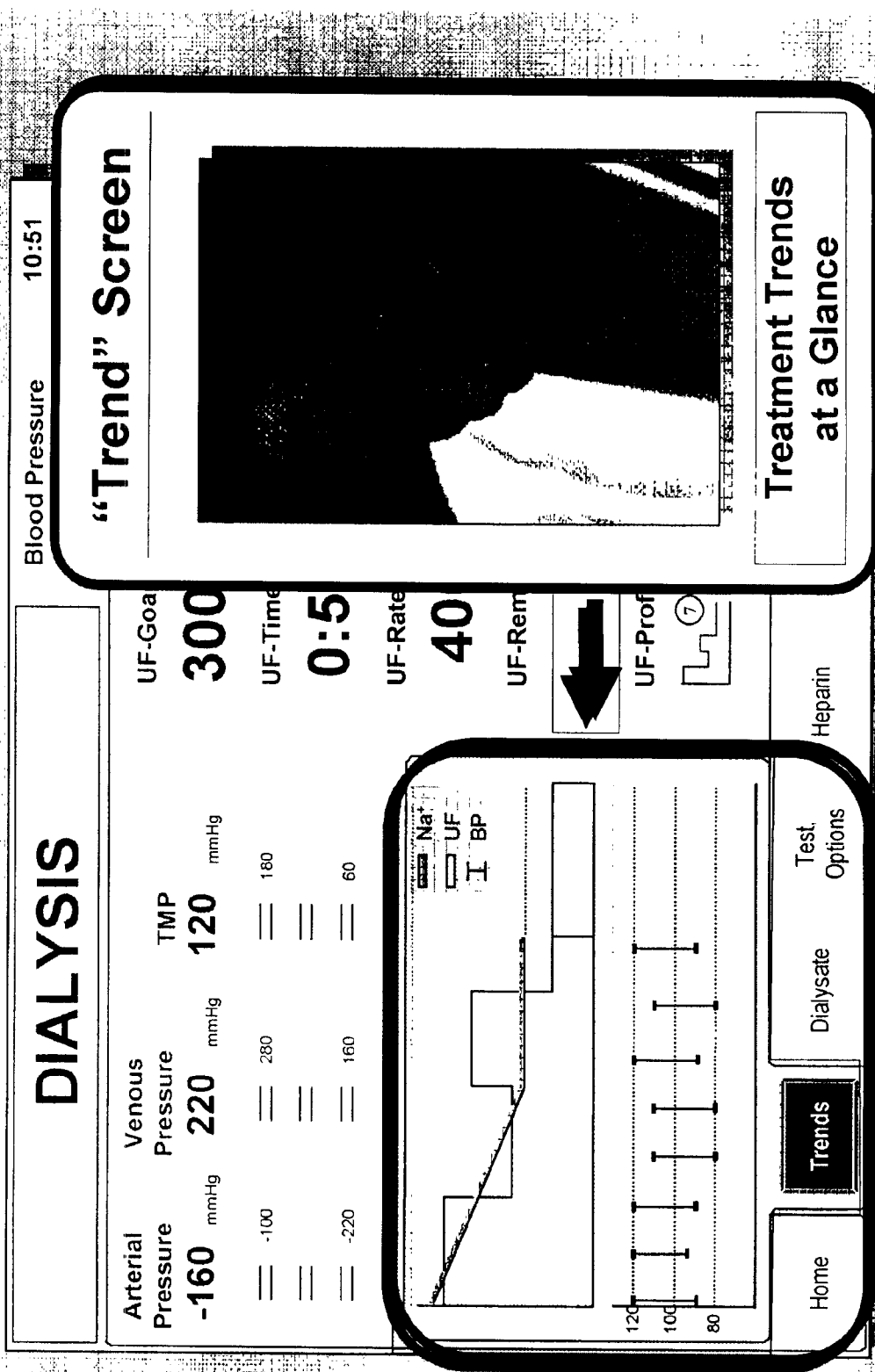
### Data Entry



- Numeric Key Pad
- Precise Data Entry the Very First Time

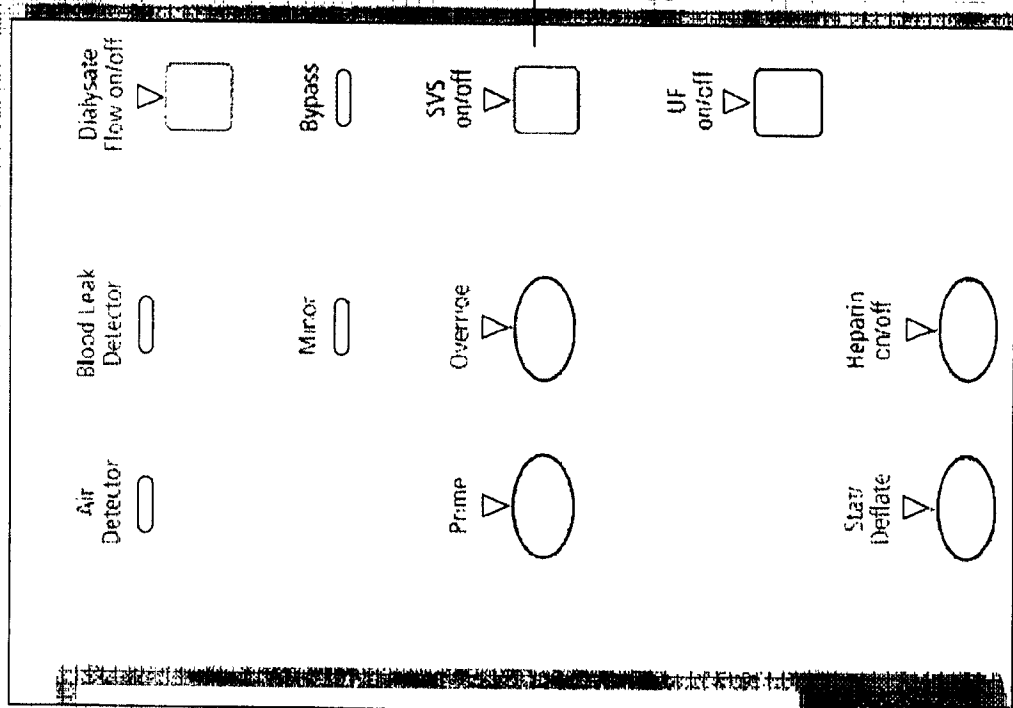
# In Touch with a New Generation

## The Touch Screen



# Keys - Where You Want Them

## The Front Panel



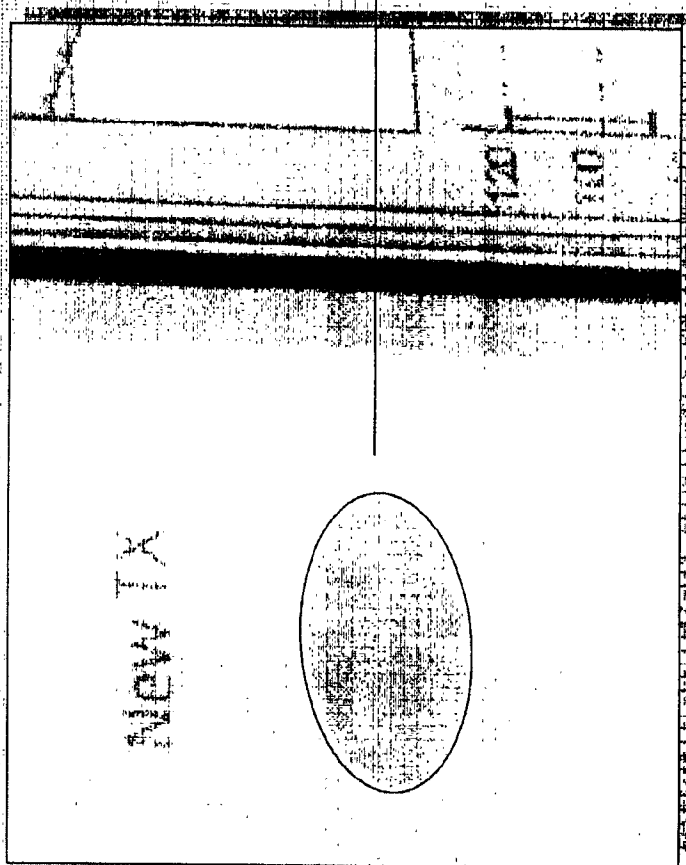
**Immediate Access  
to On/Off Functions**



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# The Start of a Treatment

## "New Treatment" Key



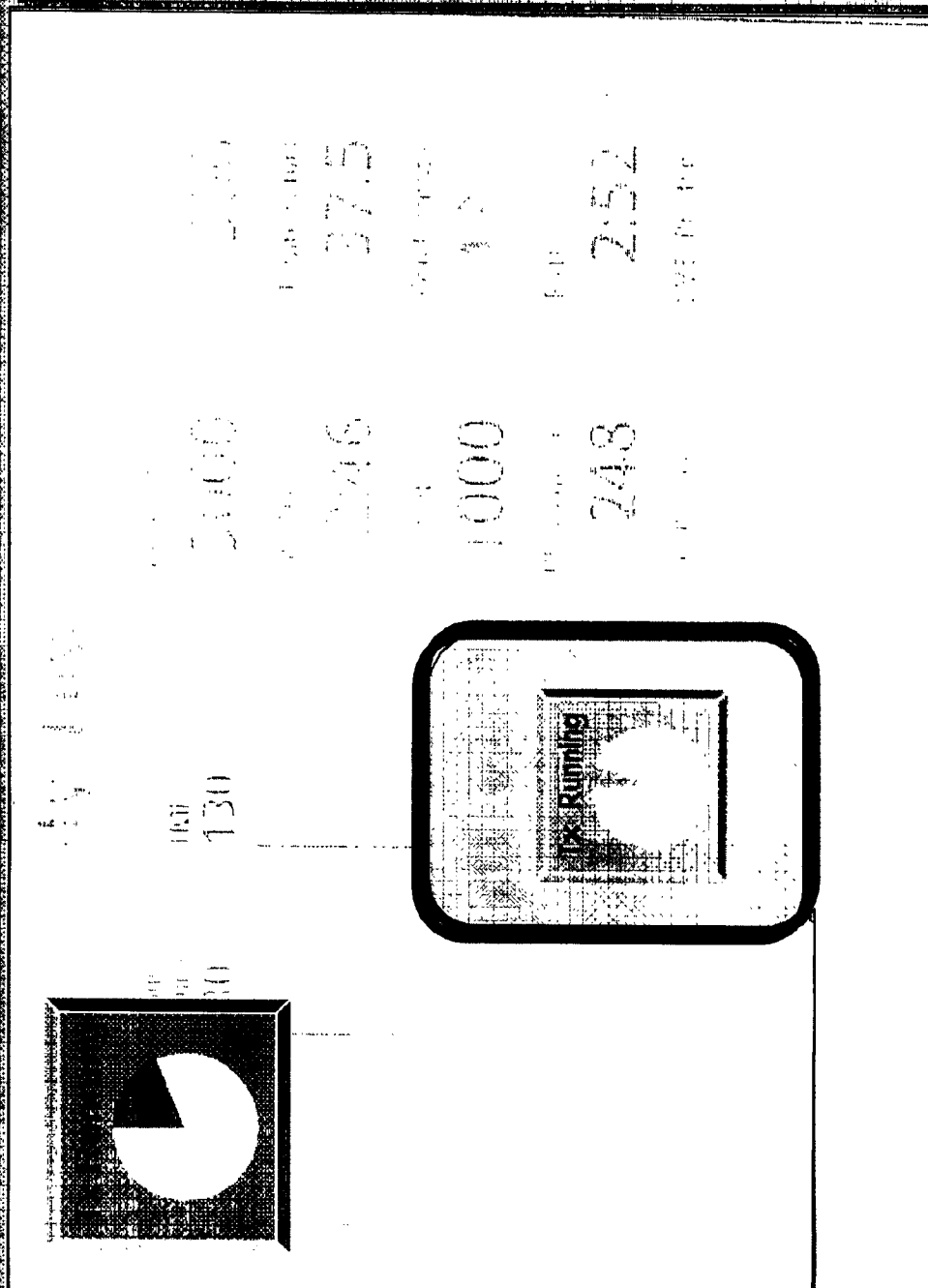
Resets all timers  
and parameters



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# The Start of a Treatment

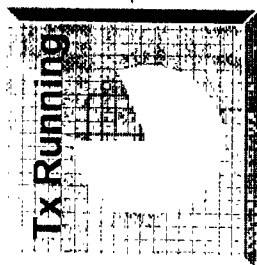
## "Click" Button



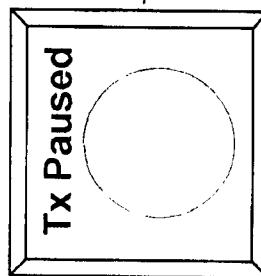
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# The Start of a Treatment

## "Tx - Clock" Button



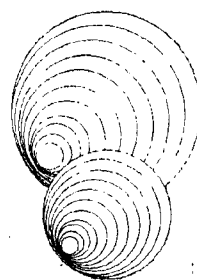
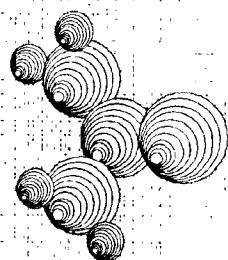
- "Tx Clock" button starts:  
Heparin, UF, SVS, OLC, ...
- Checks "Blood Sensed"
- All timers are synchronized  
...



... and can be paused  
at any time



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**2008 K**

**On-Line Clearance**

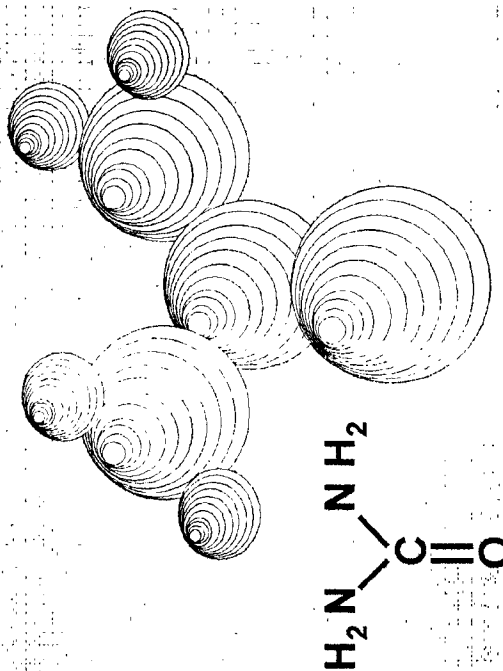


**Fresenius Medical Care**

# On-Line Clearance

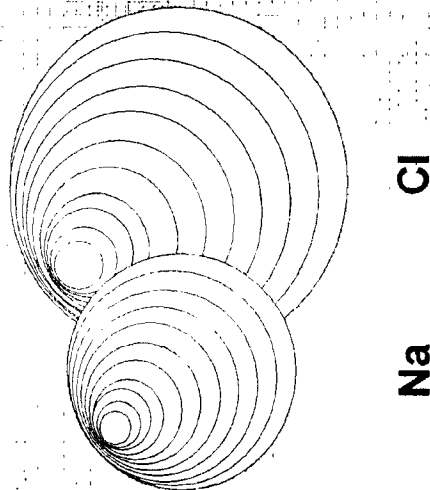
## Molecular Weight

**Urea**



**60**

**NaCl**



**58**

1	12	14	16	23	35
H	C	N	O	Na	Cl

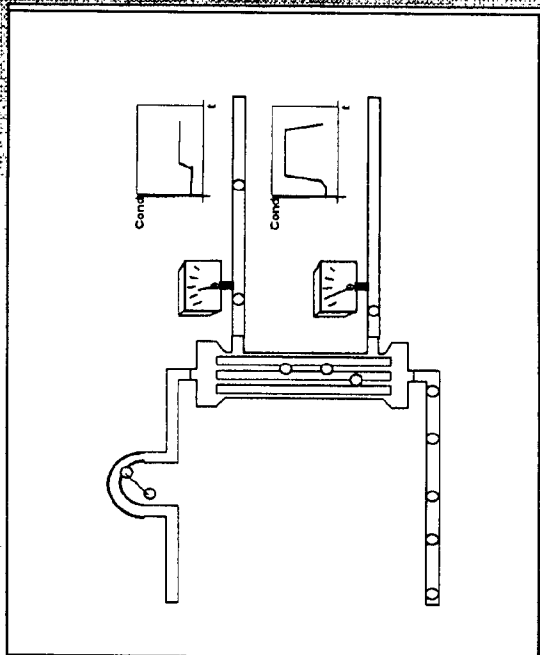
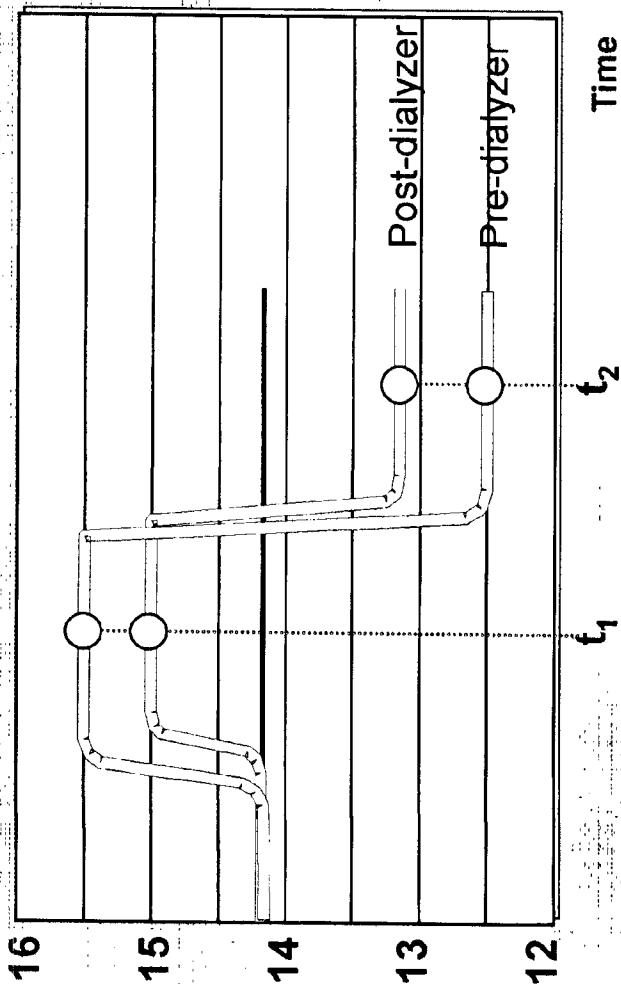


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# On-Line Clearance

## Principle

Conductivity [mS/cm]



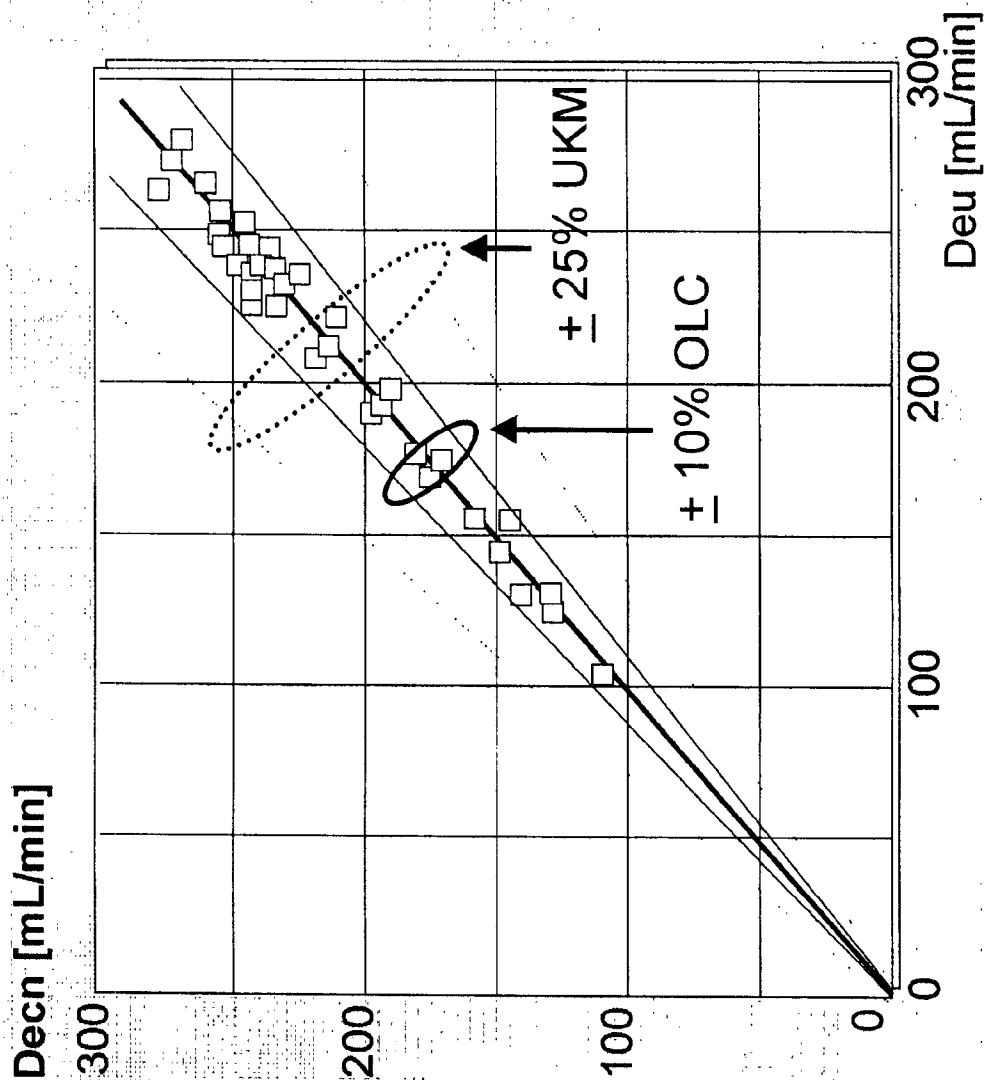
$$\text{Clearance} = Q_D \left[ 1 - \frac{\Delta C_{D0}}{\Delta C_{Di}} \right]$$



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# On-Line Clearance

## Accuracy



Gotch, 1998



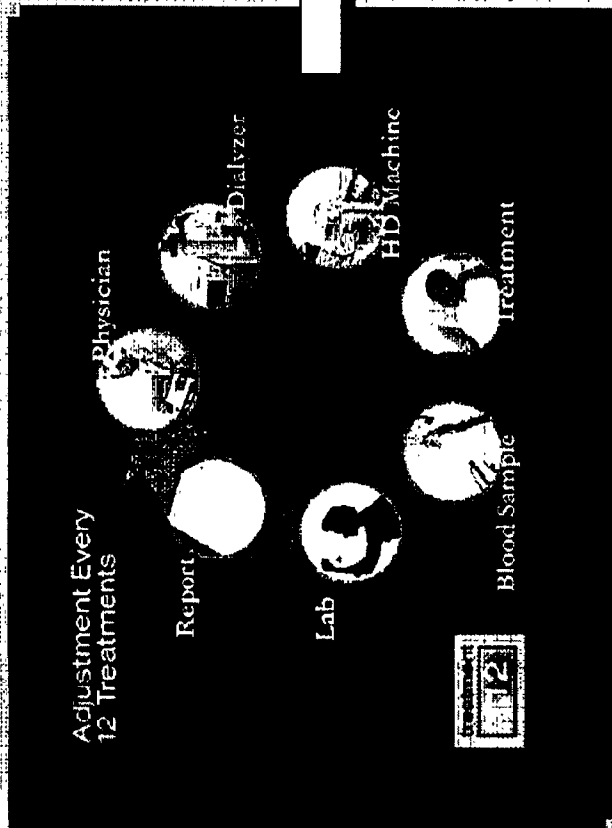
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# On-Line Clearance

## Therapy Adjustment

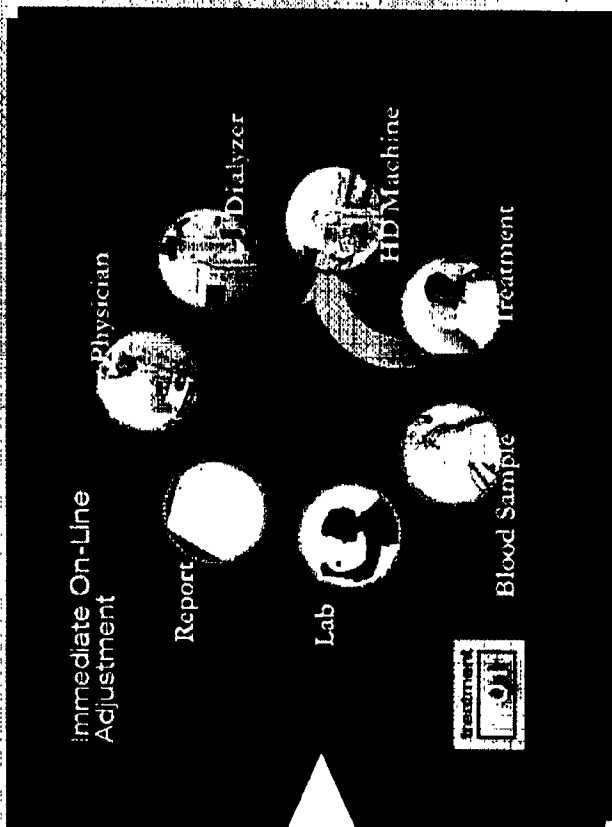
Traditionally

With On-Line Clearance Monitor



Monthly adjustment

On-line adjustment



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## Page 22 of 30

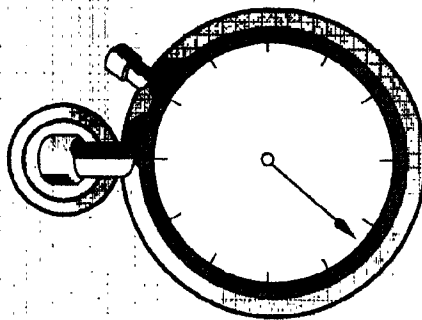
**Fresenius Medical Care**

# On-Line Clearance

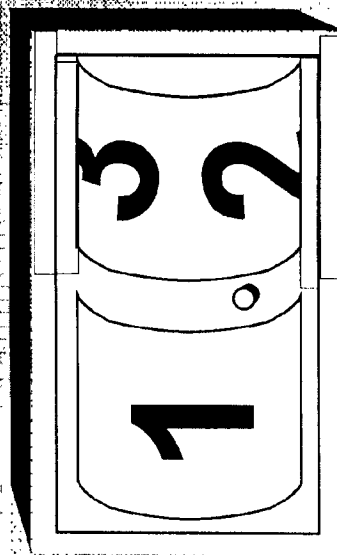
The Future?

Treatment Time

Kt/V



or



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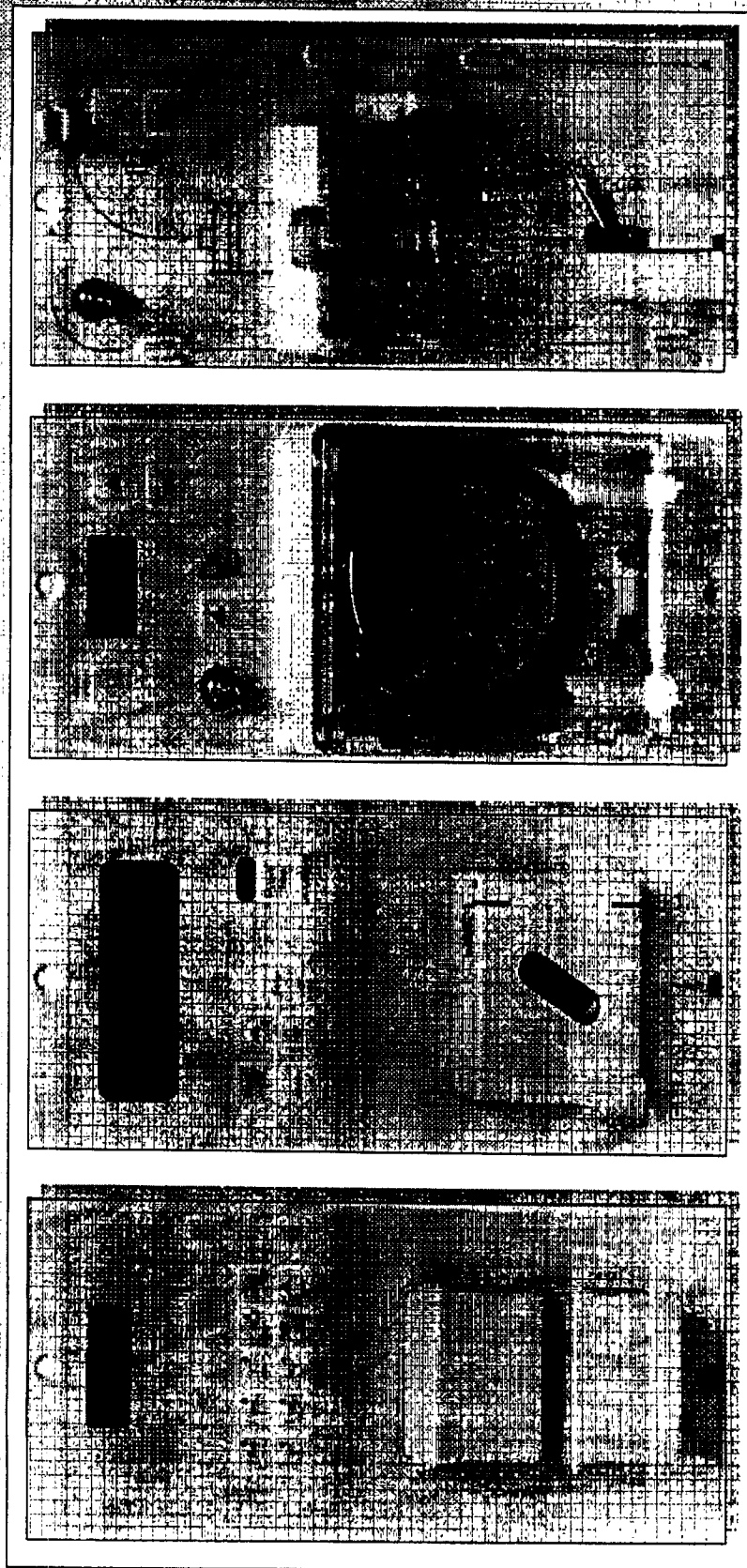
**Patient Safety  
Defines the Details**



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# Customization for Flexibility

## Modular Design



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# Customization for Flexibility

## Blood Pump

Arterial Level  
Adjustment



Adult, Pediatric,  
Neonatal  
Blood Lines

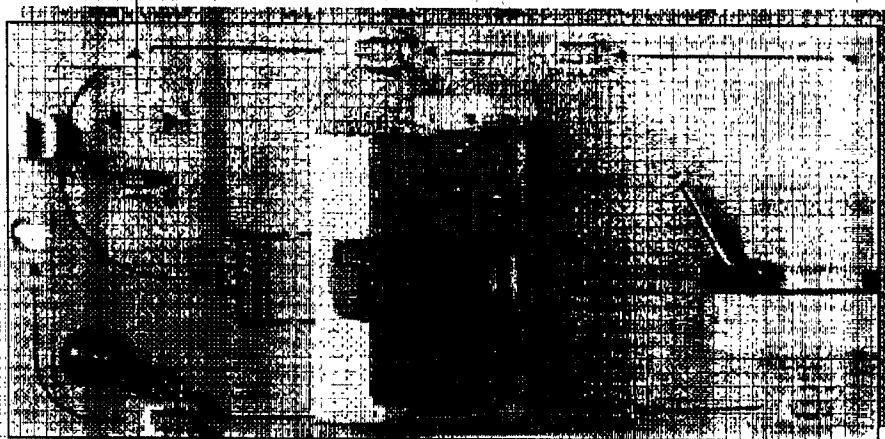
Self Loading  
Pump Segment



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# Customization for Flexibility

## Air Detector



Push Button  
Control



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# Customization for Flexibility

## Heparin Pump

Improved  
Handling



Accommodates  
Most  
Manufacturers'  
Syringes

10cc, 12cc, 20cc  
Syringes



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# **Blood Volume Monitor & Blood Temperature Monitor**

**Hypotension Management,  
only from Fresenius**

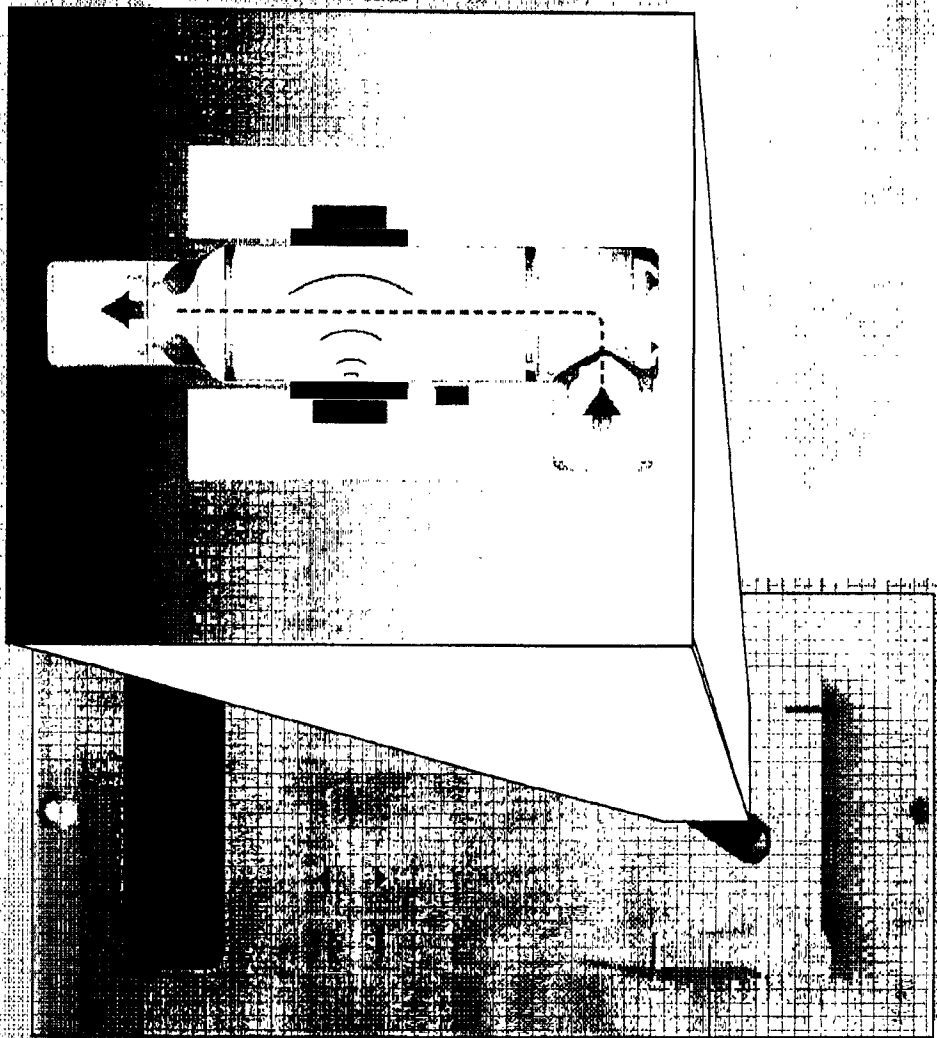


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# Control with Ultrasonic Precision

## Blood Volume Monitor

Ultrasonic  
Sensor



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